

Optigo



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Benefits

- **Top performance:** advanced high efficiency heat exchanger
- **Environment and installation-cost friendly:** very low refrigerant charge and EC fans
- **Short delivery time**
- **Even cold room conditions:** optimized air flow and throw
- **Easy installation and maintenance:** fully accessible casing, hinged draintray
- **Long life cycle:** first class materials used
- **Fit for purpose:** wide capacity range and options

General information & application

Optigo FCC are cubic light industrial air coolers for general application in small to medium-sized cooling, freezing and working rooms. Optigo FCC models are especially suitable for refrigerated working, processing and storage rooms.

Refrigerants



Capacity range (SC2 with R404)

5.4 up to 60.4 kW

Air flow

4,600 up to 32,400 m³/h

Min. room temperature

- 35 °C

Design pressure

Refrigerant	Max working pressure
HFC*	24 bar
CO ₂	45-60 bar
Brine	10 bar

* Fluid group 2 according to EN 378

Each heat exchanger is leak tested with dry air and finally supplied with a dry air pre-charge.

Fitted with schröder valve on the suction connection for testing purposes (only for HFC and CO₂ units).

Coil

High-efficiency coil manufactured from internally grooved Cu tubes and louvered aluminium fins. Standard fin spacings: 4.5, 6.0, 7.5 and 10.0 mm.

Casing

Durable galvanized steel casing, powder coated RAL 9003. Dismountable and openable casing for cleaning and inspecting purposes. Fitted with hinged drain tray.

Fan motors

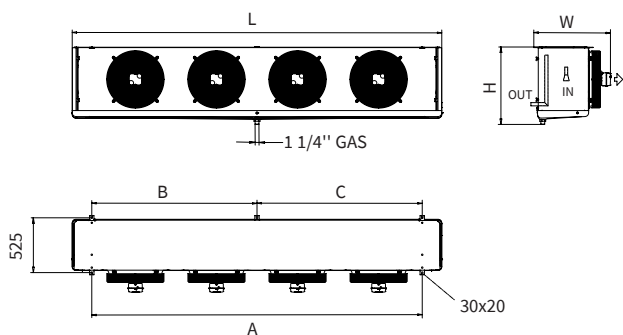
1 to 4 fans fitted with high efficiency AC or EC fan motors, available in two fan diameters (450 and 500 mm) drawing through the coil.

Type	Power supply	Ø mm	Nominal power W (x1)	Nominal current A (x1)
AC	1~230 V - 50/60 Hz	450	480/665	2.1/2.9
AC	3~400 V - 50 Hz Δ/Y	500	840/540	1.45/0.96
AC	3~460 V - 60 Hz Δ/Y	500	1200/700	2.0/1.05
EC	1~230 V - 50/60 Hz	450	410	1.8
EC	3~400 V - 50/60 Hz	500	1000	1.6



Optigo FCC

Cubic light industrial air coolers



Dimensions

Model	Fans no.	Dimensions (mm)						
		L	A	B	C	W	H	
F45CC	**00 **02	1	1290	800	800	-	675	660
F45CC	**06 **08	2	2090	1600	1600	-	675	660
F45CC	**12 **14	3	2890	2400	2400	-	675	660
F45CC	**18 **20	4	3690	3200	1600	1600	675	660
F50CC	**00 **02	1	1290	800	800	-	730	880
F50CC	**06 **08	2	2090	1600	1600	-	730	880
F50CC	**12 **14	3	2890	2400	2400	-	730	880
F50CC	**18 **20	4	3690	3200	1600	1600	730	880

Certifications

The Alfa LU-VE quality system is in accordance with ISO 9001. All products are manufactured according to PED regulations. Alfa LU-VE participates in the ECP program for HE. Check ongoing validity of certificate*: www.eurovent-certification.com



*Brine refrigerant is not covered by Eurovent certification

Options

- Corrosion protection: Alupaint fins (AP)
- Electric defrost (E). The stainless steel defrost elements (both in coil and in drain tray) are connected to dedicated connection box.
- Hot gas defrost (G) - hot gas in coil, electrical in drain tray
- Fan shroud heater
- EC fans (0-10 V) + Modbus
- Fan motors wired to a central connection box
- Fan switches
- Insulated drain tray
- Shut-up sock (S)
- Sock ring (SR)
- Air streamer (ST)
- Top connections - for brine models



Selection

Selection and pricing is to be performed with our online air heat exchanger selection software [Plair](#). Selection output includes all relevant technical data and dimensional drawings.

Code description

F45CC	*	1100	N	4	*	*
1	2	3	4	5	6	7

- 1 Optigo cubic light industrial air coolers (F45CC=Ø 450 mm, F50CC=Ø 500 mm)
- 2 Application (blank=direct expansion, W=brine)
- 3 Model type
- 4 Defrost system (N=air defrost, E=electric defrost, G=hot-gas defrost)
- 5 Fin spacing (4=4.5, 6=6.0, 7=7.5, 10=10.0 mm)
- 6 Circuits code - only for brine units
- 7 Options

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